

Abstract

The invention relates to a mobile building unit which is assembled to a building including at least one 5 room (3) enclosed by walls (6), a roof (7) and a floor (12) for accommodating radiating equipment (5) and for treatment, therapy or diagnosing by means of ionizing radiation. The walls, the roof and floor of said building (1, 1') serve as a radiation shielding barrier for preventing radiation at health-impairing levels from escaping to the outside of the building structure. At least 10 two of the walls and the roof of the building, has the form of a double walled structure comprising an inner (8) and an outer (9) partition element with a space (10) therebetween. The building also has a filling inlet 15 through which the space is fillable with a fillable material, in order to reduce weight and facilitate transportation of the assembled building with the space in an emptied state, and to allow filling of the space with the 20 fillable material once the building is located at a site, where it is to be used, to provide a radiation shielding barrier with a sufficient shielding capacity. The invention also relates to a method for constructing the same.

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Selected for publication: Fig 2

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